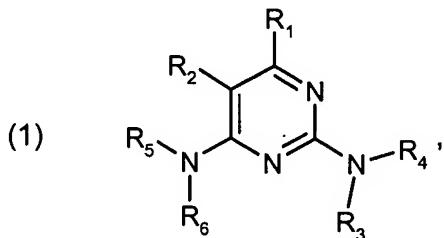


Claims 1-21 (cancelled).

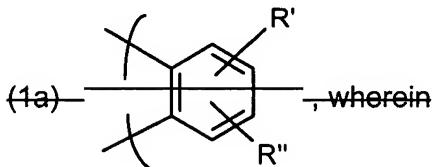
22. (currently amended) A method for the antimicrobial treatment of a surface of a plastic, which comprises contacting said surface plastic with an antimicrobially effective amount of a 2,4-bis(alkylamino)pyrimidine of formula



wherein

R_1 is C_1-C_{12} alkyl or C_6-C_{10} aryl;

R_2 is hydrogen or C_1-C_{12} alkyl; or R_4 and R_2 together form a radical of formula



R' and R'' are each independently of the other hydrogen, C_1-C_6 alkyl or C_4-C_6 alkoxy;

R_3 and R_5 are each independently of the other hydrogen or C_1-C_8 alkyl;

R_4 is C_1-C_{20} alkyl, unsubstituted phenyl, C_6-C_{10} aryl, C_6-C_{10} aryl- C_1-C_6 alkyl, hydroxy- C_1-C_6 alkyl, di- C_1-C_6 alkylamino- C_1-C_6 alkyl, mono- C_1-C_6 alkylamino- C_1-C_6 alkyl, $-(CH_2)_2-(O-(CH_2)_2)_{1-4}-OH$ or $-(CH_2)_2-(O-(CH_2)_2)_{1-4}-NH_2$;

R_6 is C_1-C_{20} alkyl, C_6-C_{10} aryl, C_6-C_{10} aryl- C_1-C_6 alkyl, hydroxy- C_1-C_6 alkyl, di- C_1-C_6 alkylamino- C_1-C_6 alkyl, mono- C_1-C_6 alkylamino- C_1-C_6 alkyl, $-(CH_2)_2-(O-(CH_2)_2)_{1-4}-OH$ or $-(CH_2)_2-(O-(CH_2)_2)_{1-4}-NH_2$; or

R_3 and R_4 and/or R_5 and R_6 together form a pyrrolidine, piperidine, hexamethyleneimine or morpholine ring.

23. (previously presented) A method according to claim 22, wherein

R_1 is C_1-C_8 alkyl or phenyl.

24. (previously presented) A method according to claim 22, wherein

R_2 is hydrogen or C_3-C_8 alkyl.

25. (previously presented) A method according to claim 22, wherein

R_3 and R_5 are each independently of the other hydrogen or C_1 - C_8 alkyl.

26. (previously presented) A method according to claim 22, wherein

R_4 is C_1 - C_{12} alkyl, unsubstituted phenyl, C_6 - C_{10} aryl- C_1 - C_6 alkyl, hydroxy- C_2 - C_6 alkyl, di- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, mono- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, $-(CH_2)_2$ - $(O-(CH_2)_2)_{1,2}$ -OH or $-(CH_2)_2$ - $(O-(CH_2)_2)_{1,2}$ -NH₂; and

R_6 is C_1 - C_{12} alkyl, C_6 - C_{10} aryl, C_6 - C_{10} aryl- C_1 - C_6 alkyl, hydroxy- C_2 - C_6 alkyl, di- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, mono- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, $-(CH_2)_2$ - $(O-(CH_2)_2)_{1,2}$ -OH or $-(CH_2)_2$ - $(O-(CH_2)_2)_{1,2}$ -NH₂.

27. (previously presented) A method according to claim 22, wherein

R_1 is C_1 - C_8 alkyl or phenyl;

R_2 is hydrogen or hexyl; and

R_3 and R_5 are each independently of the other hydrogen or C_1 - C_8 alkyl;

R_4 is C_1 - C_{12} alkyl, unsubstituted phenyl, C_6 - C_{10} aryl- C_1 - C_6 alkyl, hydroxy- C_2 - C_6 alkyl, di- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, mono- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, $-(CH_2)_2$ - $(O-(CH_2)_2)_{1,2}$ -OH or $-(CH_2)_2$ - $(O-(CH_2)_2)_{1,2}$ -NH₂; and

R_6 is C_1 - C_{12} alkyl, C_6 - C_{10} aryl, C_6 - C_{10} aryl- C_1 - C_6 alkyl, hydroxy- C_2 - C_6 alkyl, di- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, mono- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, $-(CH_2)_2$ - $(O-(CH_2)_2)_{1,2}$ -OH or $-(CH_2)_2$ - $(O-(CH_2)_2)_{1,2}$ -NH₂; or
 R_3 and R_4 and/or R_5 and R_6 together form a pyrrolidine, piperidine, hexamethyleneimine or morpholine ring.

28. (cancelled)

29. (currently amended) A method according to claim 22, wherein

R_1 is C_1 - C_4 alkyl or phenyl;

R_2 is hydrogen or hexyl; ~~or R_4 and R_5 together form a radical of formula (1a) as defined in claim 22,~~ wherein

R' is hydrogen, C_1 - C_3 alkyl or C_1 - C_3 alkoxy, and

R'' is C_1 - C_3 alkyl or C_1 - C_3 alkoxy;

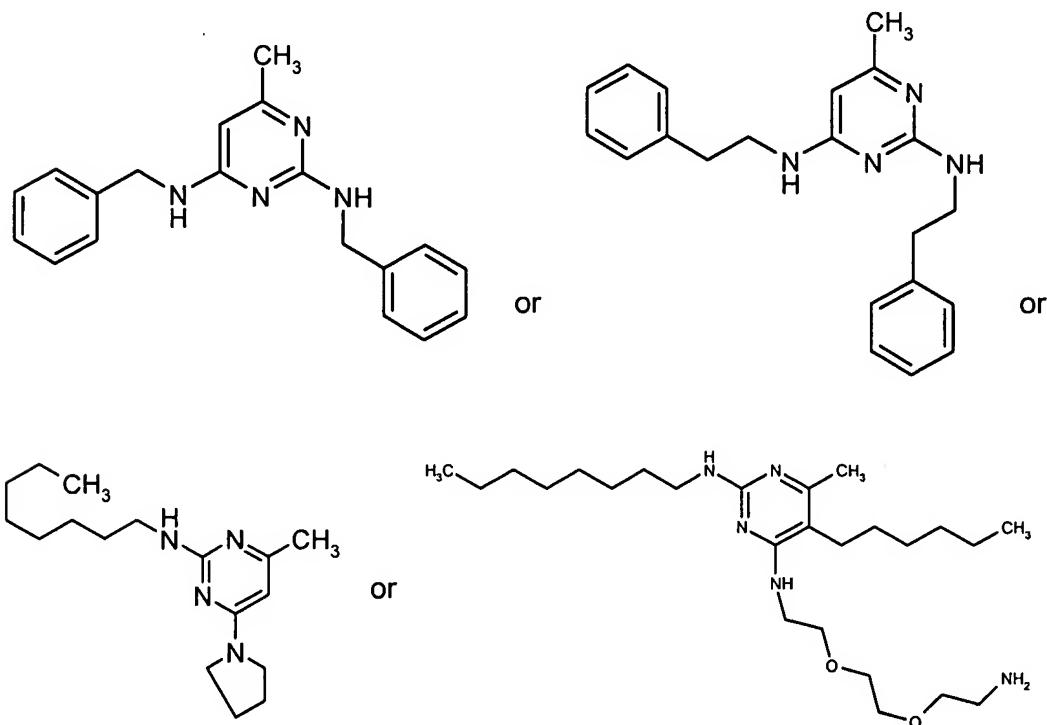
R_3 and R_5 are each independently of the other hydrogen or C_1 - C_8 alkyl;

R_4 is C_1 - C_{12} alkyl, unsubstituted phenyl, C_6 - C_{10} aryl- C_1 - C_6 alkyl, hydroxy- C_2 - C_6 alkyl, di- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, mono- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, $-(CH_2)_2$ - $(O-(CH_2)_2)_{1,2}$ -OH or $-(CH_2)_2$ - $(O-(CH_2)_2)_{1,2}$ -NH₂; and

R_6 is C_1 - C_{12} alkyl, C_6 - C_{10} aryl, C_6 - C_{10} aryl- C_1 - C_6 alkyl, hydroxy- C_2 - C_6 alkyl, di- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, mono- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-OH$ or $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-NH_2$; or R_3 and R_4 together, and R_5 and R_6 together, form a pyrrolidine, piperidine, hexamethyleneimine or morpholine ring.

30. (previously presented) A method according to claim 22, wherein R_3 and R_5 , and R_4 and R_6 , have the same meanings.

31. (previously presented) A method according to claim 22, wherein the 2,4-bis(alkylamino)pyrimidine is of the formula



32-42. (cancelled)